3.5.2 Chemical Analysis

Subsurface soil samples were analyzed by STL for pre-selected analyses. Analyses were based on potential contaminants of concern identified on the basis of known building processes and historical review.

3.6 GROUNDWATER SAMPLING

Groundwater samples were collected from temporary monitoring points that were installed following the completion of subsurface soil borings. The monitoring points consisted of 1-inch polyvinyl chloride (PVC) screen and casing that extended from the base of the bore hole to ground surface level. Screened sections for all monitoring points were ten feet in length and contained a slot width of 0.01-inch. A hydrated bentonite seal was placed in the annulus between the outside of the PVC casing and the inside of the probe hole. Plugs and caps were utilized to secure a watertight seal at the top of each temporary monitoring point. The monitoring points were left in-place for a period not exceeding 60 days. Following the completion of all groundwater sample collection, the screen and casing was pulled from the probe hole and the void was backfilled with hydrated bentonite.

3.6.1 Groundwater Sample Collection

Groundwater samples were collected using disposable polyethylene tubing with a stainless steel check-ball. Upon collection, groundwater water samples were immediately stored in clean, laboratory-supplied jars for analysis. Once capped and sealed, sample containers were placed on ice in a cooler, and held until the end of the day of field investigation. At the end of the day of field investigation, the sample containers were shipped on ice under a proper chain-of-custody via overnight express delivery service to STL in University Park, Illinois.

3.6.2 Chemical Analysis

Groundwater samples were analyzed by STL for pre-selected analyses. Analyses were based on potential contaminants of concern identified on the basis of known building processes and historical review.

3.7 SUMP AND TUNNEL WATER SAMPLING

Sump and tunnel water samples were collected from water sources found inside the basement level building or inside utility tunnel system. Sample collection points included water sources found on tunnel floors and inside sump pits. Sump and tunnel water sample locations were selected at random within each defined area. Defined areas were established based on proximity to potential hazard exposure, changes in surface color or texture, proximity to process areas, and/or spatial considerations.

3.7.1 Logging of Sample Parameters

All sample locations were documented in the field log and pictures of the sample locations were taken.